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PTO/SB/01A (05-03)  
Approved for use through 05/31/2003. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Title of Invention                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MISCHMETAL OXIDE TBC                        |
| <p>As the below named inventor(s), I/we declare that:</p> <p>This declaration is directed to:</p> <p><input type="checkbox"/> The attached application, or</p> <p><input checked="" type="checkbox"/> Application No. <u>10/792,161</u>, filed on <u>March 3, 2004</u>,</p> <p><input type="checkbox"/> as amended on _____ (if applicable);</p> <p>I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;</p> <p>I/ we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;</p> <p>I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including material information which became available between the filing date of the prior application and the National or PCT International filing date of the continuation-in-part application, if applicable; and</p> <p>All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.</p> |                                             |
| FULL NAME OF INVENTOR(S)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |
| Inventor one: <u>Lyman A. Johnson</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             |
| Signature: <u>Lyman A. Johnson, deceased</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Citizen of: <u>United States of America</u> |
| Inventor two: <u>Robert William Bruce</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             |
| Signature: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Citizen of: <u>United States of America</u> |
| Inventor three: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             |
| Signature: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Citizen of: _____                           |
| Inventor four: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |
| Signature: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Citizen of: _____                           |
| <input type="checkbox"/> Additional inventors are being named on _____ additional form(s) attached hereto.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             |

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



ADDED PAGE TO DECLARATION, NASA DECLARATION, POWER OF ATTORNEY FOR SIGNING BY EXECUTRIX ON BEHALF OF DECEASED INVENTOR (37 CFR 1.42 AND 1.43 )

I, Mary Johnson  
(type or print name(s) of administrator(trix), executor(trix), legal representative or all heirs)  
hereby declare that I am a citizen of United States of America  
residing at 7681 Indian Pond Court, Cincinnati, OH 45241  
and that I am executing and signing the declaration to which this is attached as (check one):

- ☐ the administrator(trix) of  
☒ executor(trix) of the last will and testament of  
☐ legal representative (or heirs) of

*Full name of (first, second, etc.) deceased or incapacitated inventor*

Lyman A. Johnson

*Country of citizenship of deceased or incapacitated inventor*

United States of America

*Residence of deceased or incapacitated inventor*

7681 Indian Pond Court, Cincinnati, OH 45241

*Post Office Address of deceased or incapacitated inventor*

Same

Note: The name of the first, second, etc. deceased or incapacitated inventor should preferably also be filled in at the appropriate prior space of the dclaration adding the words "deceased-compted on added page" or "incapacitated-completed on added page."

That, upon information and belief, I aver those facts which the inventor is required to state.

Date: 7/19/04

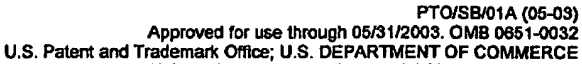
By: Mary B. Johnson  
Mary Johnson

(signature of administrator(trix), executor(trix) legal representative  
(or all heirs))

Note: Proof of authority of the administrator(trix), executor(trix) or legal representative must be recorded in the PTO or filed in the application before the grant of the patent. 37 CFR 1.44.

Note: Application may be made by the heirs of the inventor if a certificate of the court will establish that they are all the heirs and the estate was not required to appoint an administrator. If the heirs are signing add lines for all the heirs to sign. MPEP §409.01(a).

(Added Page to Combined Declaration and Power of Attorney for Signing by Administrator(trix), Executor(trix) or Legal Representative on Behalf of Deceased or Incapacitated Inventor (37 CFR 1.42 and 1.43)



**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION  
USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Attorney Docket No. 13DV-13810 (07783-0090)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: General Electric Company )  
Serial No.: 10/792,161 ) Attn: LICENSING AND REVIEW  
Filed: March 3, 2004 )  
Title: MISCHMETAL OXIDE TBC )

DECLARATION UNDER SECTION 305(c) OF THE  
NATIONAL AERONAUTICS AND SPACE ACT OF 1958

Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SIR:

We, Robert William Bruce and Lyman A. Johnson, hereby declare:

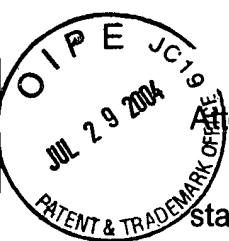
That we are the inventors of the invention described and claimed in the above-referenced U.S. Patent Application;

That the invention was made while we were employed by the General Electric Company, the assignee of the subject invention, using only the resources of the General Electric Company, including, for example, its funds, facilities, materials, information, and services;

That the invention set forth in the above-referenced U.S. Patent Application was not made (conceived or first actually reduced to practice) under, nor is there any known relationship of the making of the invention to the performance of, any work under any contract of the National Aeronautics and Space Administration;

That we signed this declaration on the date we signed the form papers accompanying the filing of the above-referenced U.S. Patent Application with the understanding that the attorney of record would later insert the appropriate serial number and filing date hereinabove before submitting this Declaration to the U.S. Patent and Trademark Office;

That all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these



Attorney Docket No. 13DV-13810 (07783-0090)

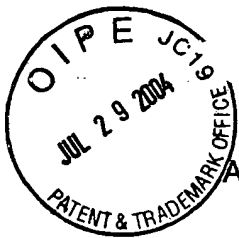
statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing therein.

\_\_\_\_\_  
(Date)

7-19-04  
(Date)

\_\_\_\_\_  
Robert William Bruce

Lyman A. Johnson, deceased  
by Mary B. Johnson  
Lyman A. Johnson



Attorney Docket No. 13DV-13810 (07783-0090)

statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing therein.

7/26/04  
(Date)

Robert William Bruce  
Robert William Bruce

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
Lyman A. Johnson